made to remove a spot of pigment from the iris, under the impression that it was a speck in the cornea.

Anesthesia must be complete, since it is impossible to hold one's eye still, when it is painfully traumatized by a spud. My own preference is a drop or two of cocaine solution five per cent, followed by holocain solution one per cent, at intervals of two minutes. Cocaine alone tends to dry the cornea, increasing the danger of ulceration, and holocain is very irritating to an inflamed eye. Some antiseptic, such as mercurochrome, which is always available, should be instilled into the conjunctival sac, and the eye irrigated in a moment or two.

Again light and magnification are essential. The patient should be directed to look at something with the uninjured eye, so that neither eye will move. An attempt should be made at removal with a bit of moist cotton, on a toothpick applicator. Failing in this a spud should be used, the pattern to be decided by individual preference. The lids of the injured eye should be held by pressure of the thumb and finger of the left hand. The spud is held by the right hand, and the little finger rested on the patient's cheek or nose to secure steadiness. The point of the spud should be inserted beneath the edge of the foreign body, to lift it out. Every bit of it should be removed, and in the frequent cases where the surrounding tissue is stained or burned, this, too, should be taken out with a corneal bur.

After-treatment is very important. A drop of antiseptic should be instilled, and in all but the mildest cases, the eye should be bandaged for at least twenty-four hours, or until it is quiet. This protects the damaged cornea, and minimizes the danger of ulcer. Patients appreciate holocain one per cent either solution or ointment, to keep the eye comfortable after the anesthetic wears off.

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Dermatology

Thallium Acetate.—Several years ago thallium was used for its antihydrotic action in combating night sweats of tuberculosis, and in many cases so treated loss of hair was noted. In 1900 Buschke, in experiments upon mice, rats, guinea pigs, apes, and rabbits, obtained the same results. By giving the animals two homeopathic tablets of thallium acetate dissolved in water and mixed with their food, he observed that the hair fell out in a few weeks, first in patches, later totally, and that animals could be kept naked by suitable feeding without there occurring any severe toxic disturbances.

According to him, the vibrissae, the sensitive hairs of the nose and face, were never affected with alopecia by thallium, because these hairs differ from the other hairs on the body, not only anatomically, but also in function, and are connected with the central nervous system directly;

while the other hairs are under the influence of the sympathetic system. This can be demonstrated by stimulation of these nerves or by their section.

If these entirely naked animals were fed larger doses of the drug, growth stopped, or remained far behind others, sexual impulse ceased or failed to develop, psychic disturbances occurred, and altogether they presented a cretinoid appearance.

From these and other observations, he concluded that its action was due to some injury to the endocrine apparatus as well as to the sympathetic nervous system with which it is so closely bound up. Owing to this epilating action which the drug exerts, it has been used rather extensively during the past three years in the treatment of ringworm and favus infection of the scalp in children. In many instances it has supplanted the use of x-ray in producing the complete temporary alopecia, so necessary to the rapid cure of these diseases. Not that the epilation produced by x-ray is not just as efficacious or perhaps more so than that produced by thallium, but its use requires expensive apparatus and special training. neither of which are possessed by other than the dermatologist as a rule. Thallium, on the other hand, is inexpensive, a large number of children can be treated in a short time (a distinct advantage in orphanages, etc.), and it can be used by the general practitioner.

Before using it the clinical diagnosis should be confirmed by a microscopical examination of the infected hair, and the urine examined to be sure of the absence of albumin (thallium is excreted by the kidneys, and they are especially liable to injury by the toxic elements in the drug). The child is then carefully weighed without clothing. For each kilogram of body weight, eight milligrams of thallium acetate dissolved in peppermint water are given by mouth at one dose (it is tasteless). The hair begins to fall in about eight days and, when successful, alopecia is complete by the twenty-first day. The epilation is spontaneous in about 50 per cent of the cases, and in the others it must be completed by extracting the loose hairs by means of adhesive strips, which is entirely painless.

The hair begins to grow again in about four weeks and in the interval the scalp should be painted with tincture of iodin daily and a 10 per cent sulphur ointment also applied daily. In three months regeneration is nearly complete.

Toxic symptoms, such as pains in lower limbs (peripheral neuritis), some loss of appetite and an occasional headache appear in a few cases. These are promptly relieved by rest in bed.

Thallium should not be used for this purpose in children approaching puberty because of its toxicity in such large doses.

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